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(54) PRODUCTION OF INSULIN SUPPOSITORY

(57) Abstract:

PURPOSE: To obtain the titled suppository, rich in elution property and having high safety and blood concentration level, by dissolving insulin, an absorption accelerator and/or water-soluble saccharide at a specific blending ratio in water, drying the resultant solution, blending the obtained powder with a base and forming the blend.

CONSTITUTION: An insulin suppository obtained by dissolving insulin in an amount of 0.1W1wt% based on the suppository, an absorption accelerator, e.g. a compound expressed by formula I (R is H, OH, etc.) or a compound expressed by formula II (X is Cl, Br) in an amount of 2W5wt% based on the suppository and/or a water-soluble saccharide, e.g. lactose or mannitol, in an amount of 0.5W30wt% based on the suppository in water, drying the resultant solution, blending the

resultant powder with a base and forming the blend. The above- mentioned method provides a high dissolution rate of the insulin from the suppository and good safety. Furthermore, the content is uniform and release of the absorption accelerator can be controlled to sustain the insulin concentration in blood serum at a high level.

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